

Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Previously presented) A method of embedding auxiliary data (K) in an information signal (P), comprising the steps of:

shifting one or more predetermined watermark patterns (W2) one or more times over a vector (k), the respective vector(s) being indicative of said auxiliary data (K); and

embedding said shifted watermark(s) (W2') in said information signal.

2. (Original) A method as claimed in claim 1, including the step of further embedding the predetermined watermark (W2) to provide a reference for said vector (k).

3. (Original) A method as claimed in claim 2, wherein said predetermined watermark pattern (W2) is embedded with a different sign.

4. (Original) A method as claimed in claim 1, including the step of embedding a further predetermined watermark (W1) to provide a reference for said vector (k).

5. (Canceled)

6. (Previously presented) A method of detecting auxiliary data in an information signal, comprising the steps of:

detecting one or more embedded watermarks (W2');
determining a vector (k) by which each detected watermark (W2') is shifted with respect to a predetermined watermark (W2); and

retrieving said auxiliary data from said vector(s).

7. (Original) A method as claimed in claim 6, wherein one of said embedded watermarks is the predetermined watermark pattern (W2), the sign of said predetermined watermark providing a reference for said vector(s).
8. (Original) A method as claimed in claim 6, including the step of detecting a further embedded watermark (W1) to provide a reference for said vector(s).
9. (Original) A method as claimed in claim 6, wherein the step of detecting an embedded watermark (W2') includes determining the correlation between the information signal and shifted versions of said predetermined watermark (W2), the vector(s) being defined by the shifted version(s) for which said correlation exceeds a given threshold.
10. (Previously presented) A method as claimed in claim 6, wherein the embedded watermark (W2') has a dimension less than the dimension of the information signal, the method comprising the step of dividing the information signal with the embedded watermark into subsignals having said dimensions, and adding said subsignals, and determining the vector (k) by which the embedded watermark (W2') is shifted with respect to a predetermined watermark (W2) having the same dimensions.
11. (Previously presented) An arrangement for embedding auxiliary data (K) in an information signal (P), comprising:
 - means for shifting one or more predetermined watermark patterns (W2) one or more times over a vector (k), the respective vector(s) being indicative of said auxiliary data (K); and
 - means for embedding said shifted watermark(s) (W2') in said information signal.

12. (Previously presented) An arrangement for detecting auxiliary data in an information signal, comprising:

- means for detecting one or more embedded watermarks (W2');
- means for determining a vector (k) by which each detected watermark (W2') is shifted with respect to a predetermined watermark (W2);
- means for retrieving said auxiliary data from said vector(s).

13. (Previously presented) A device for recording and/or playing back an information signal, comprising means for disabling recording and/or playback of the signal in dependence upon auxiliary data embedded in said video signal, wherein the device comprises an arrangement for detecting said auxiliary data as claimed in claim 11.

14 (Canceled)

15. (Previously presented) A storage medium having stored thereon an information signal (P) with auxiliary data (K) in the form of an embedded watermark (W2'), wherein the embedded watermark is a shifted version of a predetermined watermark (W2), the vector (k) over which the predetermined watermark has been shifted being indicative of said auxiliary data.

16. (New) A method as claimed in claim 1, wherein the embedded watermark has dimensions less than the dimension of the information signal, and the step of embedding comprises repeating said watermark over the extent of the information signal.